

## Handbook of Cognitive Task Design (Human Factors and Ergonomics)



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This **Handbook** serves as a single source for theories, models, and methods related to cognitive task design. It provides the scientific and theoretical basis required by industrial and academic researchers, as well as the practical and methodological guidance needed by practitioners who face problems of building safe and effective human-technology systems.

Fundamental across a wide range of disciplines, from military systems to consumer goods and process industries, cognitive task design covers the whole life-cycle of work from pre-analysis, specification, design, risk assessment, implementation, training, daily operation, fault finding, maintenance, and upgrading. It applies to people, sophisticated machines, and to human-machine ensembles. This comprehensive volume summarizes the extensive, worldwide experience with cognitive task design since the 1980s; it defines the state of the art and outlines the future of this ever-developing field.

Aimed at the graduate and postgraduate level, the **Handbook of Cognitive Task Design** is applicable to courses relating to the design of human-technology systems, interaction design, cognitive engineering, and applied industrial engineering.

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